blackbird™

Owner's Manual
Version 1.2

PMD-B100T

//////ALPINE®

PRECAUTIONS AND NOTICES

■ Important Information

Please Read Carefully Before Using This Product.

This product is intended to safely provide turn by turn instructions to get you to a desired destination. Please make certain that all persons using this navigation system carefully read these precautions and the following instructions fully.

1) This product is not a substitute for your personal judgment. Any route suggestions made by this navigation system may never supersede any local traffic regulations or your personal judgment and/or knowledge of safe driving practices. Do not follow route suggestions if the navigation system instructs you to perform an unsafe or illegal maneuver, places you in an unsafe situation, or routes you into an area which you consider unsafe.

2) Glance at the screen only when necessary and safe to do so. If prolonged viewing of the screen is necessary, pull over in a safe and legal manner and location.

3) Do not input destinations, change settings, or access any functions requiring a prolonged view of the monitor and/or remote control while you are driving. Pull over in a safe and legal manner and location before attempting to access the system.

4) Do not use the navigation system to route you to emergency services. Not all locations of emergency services such as police and fire stations, hospitals and clinics are contained in the database. Please use your own judgment and ask for directions in these situations.

5) The map database used in the navigation system is the most recent map data available at the time of production. Because of changes in streets and neighborhoods, there may be situations where the navigation system is not able to route you to your desired destination. In these cases, use your own judgment.

6) The map database is designed to provide you with route suggestions and does not take into account the relative safety of a suggested route or of factors which may affect the time required to reach your destination. The system does not reflect road closures or construction, road characteristics (i.e. type of road surface, slope or grade, weight or height restrictions, etc.), traffic congestion, weather conditions, or any other factors which may affect the safety or timing of your driving experience. Use your own personal judgment if the navigation system is unable to provide you with an alternate route.

7) There may be situations where the navigation system displays the vehicle's location erroneously. Use your own driving judgment in this situation, taking into account current driving conditions. Please be aware that in this situation the navigation system should correct the vehicle's position automatically. However, there may be times where you may have to correct the position yourself. If this is the case, pull over in a safe and legal manner and location before attempting operation.

8) Make certain that the volume level of the navigation system is set to a level which still allows you to hear outside traffic and emergency vehicles.

If there is anything in the manual about the operation of the navigation system which you are uncertain about, please contact your local Alpine authorized navigation dealer or Alpine at 1-888-NAV-HELP (1-888-628-4357) before using the navigation system.

FCC Compliance Statement

Blackbird has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide more reasonable protection against harmful interference in a residential installation, and are more stringent than "outdoor" requirements.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one of the following measures:

·Reorient or relocate the receiving antenna.
·Increase the separation between the equipment and the receiver.
·Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
·Consult an experienced radio/TV technician.

WARNINGS

Points to Observe for Safe Usage

Read this manual carefully before using this system. It contains instructions on how to use this product in a safe and effective manner. Alpine cannot be responsible for problems resulting from failure to observe the instructions in this manual.

This manual uses various pictorial displays to show you how to use this product safely and to alert you to potential dangers resulting from improper connections and operation. Following are explanations of these pictorial displays. It is important to fully understand the meanings of these pictorial displays in order to use this manual and the system properly.

⚠ WARNING

This symbol means important instructions. Failure to heed them can result in serious injury or death.

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.
Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISE WHILE DRIVING.
Failure to do so may result in an accident.

MINIMIZE DISPLAY VIEWING WHILE DRIVING.
Viewing the display may distract the driver from looking ahead of the vehicle and cause an accident.

DO NOT DISASSEMBLE OR ALTER.
Doing so may result in an accident, fire or electric shock.

USE THIS PRODUCT AS SPECIFIED.
Use for other than its designed application may result in fire, electric shock or other injury.

KEEP SMALL OBJECTS SUCH AS BATTERIES OUT OF THE REACH OF CHILDREN.
Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

DO NOT PLACE HANDS, FINGERS OR FOREIGN OBJECTS IN INSERTION SLOTS OR GAPS.
Doing so may result in personal injury or damage to the product.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.
Failure to do so may result in fire or electric shock.

DO NOT BLOCK VENTS OR RADIATOR PANELS.
Doing so may cause heat to build up inside and may result in fire.

⚠ CAUTION

This symbol means important instructions. Failure to heed them can result in injury or material property damage.

HALT USE IMMEDIATELY IF A PROBLEM APPEARS.
Failure to do so may cause personal injury or damage to the product. Return it to your authorized ALPINE dealer or the nearest ALPINE Service Center for repairing.

⚠ PRECAUTIONS

Temperature
Be sure the temperature inside the vehicle is between +45°C (+113°F) and -0°C (+32°F) before turning your unit on.

Fuse Replacement
When replacing the fuse(s), the replacement must be of the same amperage as shown on the fuse holder. If the fuse(s) blows more than once, carefully check all electrical connections for shorted circuitry. Also have your vehicle's voltage regulator checked.

Servicing the Unit
If you have problems, do not attempt to repair the unit yourself. Return it to your ALPINE dealer or the nearest ALPINE Service Station for servicing.

Installation Location
Make sure the PMD-B100 will not be exposed to:
• Direct sun and heat • Excessive dust
• High humidity   • Excessive vibrations

Characteristics of LCD Panel
• After turning the system off, a slight ghost of the image will remain temporarily. This is an effect peculiar to LCD technology and is normal.
• Under cold temperature conditions, the screen may lose contrast temporarily. After a short warm-up period, it will return to normal.
• The LCD panel is manufactured using an extremely high precision manufacturing technology. Its effective pixel ratio is over 99.99%. This means that 0.01% of the pixels could be either always ON or OFF.

Using Headphones
If ACC or the monitor's power source is turned off, a loud noise may be produced through the headphone jack. Be sure to remove the headphones from your ears before you turn the monitor off.

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USER AGREEMENT

In using this Blackbird Portable Navigation System (hereinafter referred to as "System"), which includes Alpine Electronics, Inc. ("Alpine") Specifications, Space Machine, Inc. ("Space Machine") Software and NAVTEQ North America, LLC. ("NAVTEQ") Database, you are bound by the terms and conditions set forth below. By breaking the seal on the System and using your copy of the System, you have demonstrated your agreement to the terms and conditions of this Agreement. You should, therefore, make sure that you read and understand the following provisions.

The System may not be copied, duplicated or otherwise modified, in whole or in part, without the express written permission of Alpine, Space Machine and NAVTEQ.
The System may not be transferred or sublicensed to any third party for profit, rent or loan or licensed for reuse in any manner.
The System may not be decompiled, reverse engineered or otherwise disassembled, in whole or in part.
The System may not be used in a network or by any other manner of simultaneous use in multiple systems.
The System is intended solely for personal use (or internal use where the end-user is a business) by the consumer.
The System is not to be used for commercial purposes.
Neither Alpine, Space Machine nor NAVTEQ guarantees to the customer that the System meet the specific objectives of the user.
Neither Alpine, Space Machine nor NAVTEQ shall be responsible for any damages caused by the use of the System to the actual user and to any third party.
The warranty on the System shall not extend to an exchange or refund due to misspelling, omission of letters, or any other cosmetic discrepancy in layout found in the System.
The right to use the System shall expire either when the user destroys this software, or when any of the terms for use is violated and Alpine, Space Machine and/or NAVTEQ exercise the option to revoke the license to use this software.
The terms and conditions hereof apply to all subsequent users and owners as well as to the original purchaser.

The NAVTEQ Database may include or reflect data of licensors, including Her Majesty The Queen in right of CANADA. Such data is licensed on an "AS IS" basis. The licensors, including Her Majesty The Queen, make no guarantees, representations or warranties respecting such data, either express or implied, arising by law or otherwise, accuracy or fitness for a particular purpose.
The licensors, including Her Majesty The Queen, shall not be liable in respect of any claim, demand or action, irrespective of the nature of the cause of the claim, demand or action alleging any loss, injury or damages, direct or indirect, which may result from the use or possession of the data or the NAVTEQ database. The licensors, including Her Majesty The Queen, shall not be liable in any way for loss of revenues or contracts, or any other consequential loss of any kind resulting from any defect in the data or the NAVTEQ database.
End User shall indemnify and save harmless the licensors, including Her Majesty The Queen and the minister, and their officers, employees and agents from and against any claim, demand or action, irrespective of the nature of the cause of the claim, demand or action, alleging loss, costs, expenses, damages or injuries (including injuries resulting in death) arising out of the use or possession of the data or the NAVTEQ database.
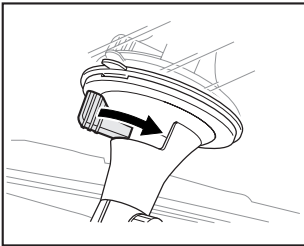
TABLE OF CONTENTS

INSTALLATION

■ How to Mount Blackbird

⚠ **WARNING**

Improper installation may make the navigation system fall out from the cradle while driving. Please make sure all locks and knobs are turned tight.

Do not install the navigation while driving.

1 Find a spot suitable for the navigation system. Ensure that both the suction cup and windshield area are clean and free of dirt and grease before attaching it.
Stick the suction cup mount against the windshield. Turn the knob to activate the vacuum to lock the position.
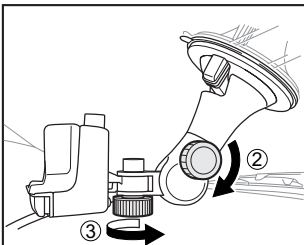
2 Turn the knob counterclockwise to adjust up/down position. Then turn clockwise to set the position.

3 Turn the knob clockwise to adjust right/left position. Then turn counter clockwise to set the position. DEVICE SHOULD NOT BE INSTALLED SO THAT IT OBSTRUCTS THE DRIVER'S VIEW.
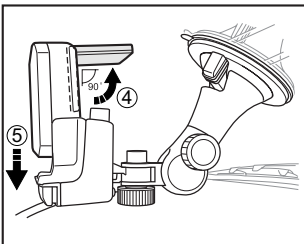
4 Open the antenna before inserting the navigation system into the cradle. For best reception sensitivity, position the antenna 90 degrees to the main unit.

5 Slide the navigation system into the cradle until you hear a click sound.

6 Plug the cigarette lighter charger into the cigarette lighter socket.

⚠ **CAUTION**

Remove the navigation system when you are away from the vehicle to prevent theft.

■ To Remove the Navigation System from the Cradle
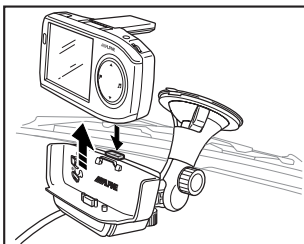
1 Press and hold the eject button on the cradle.

2 Grasp the navigation system behind the antenna and remove by sliding up and out of the cradle.

Note to California consumers: California Vehicle Code 26708 prohibits the placement of any object on windows. Refer to your authorized Alpine dealer for other installation options.

■ Battery Installation
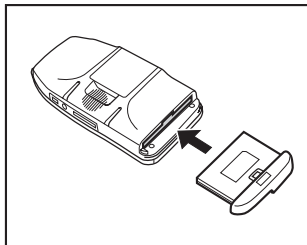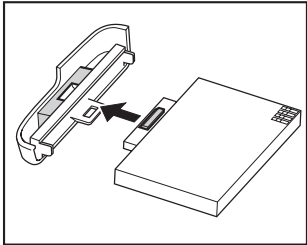
⚠ **WARNING**

Always turn off power to the system before installing or removing the battery. Failure to do so will result in damage to your system.

1 Place Blackbird face down on a flat surface.

2 Press the battery door and pull away from the main unit body.

3 Attach the battery to the battery door until a click sound-heard.

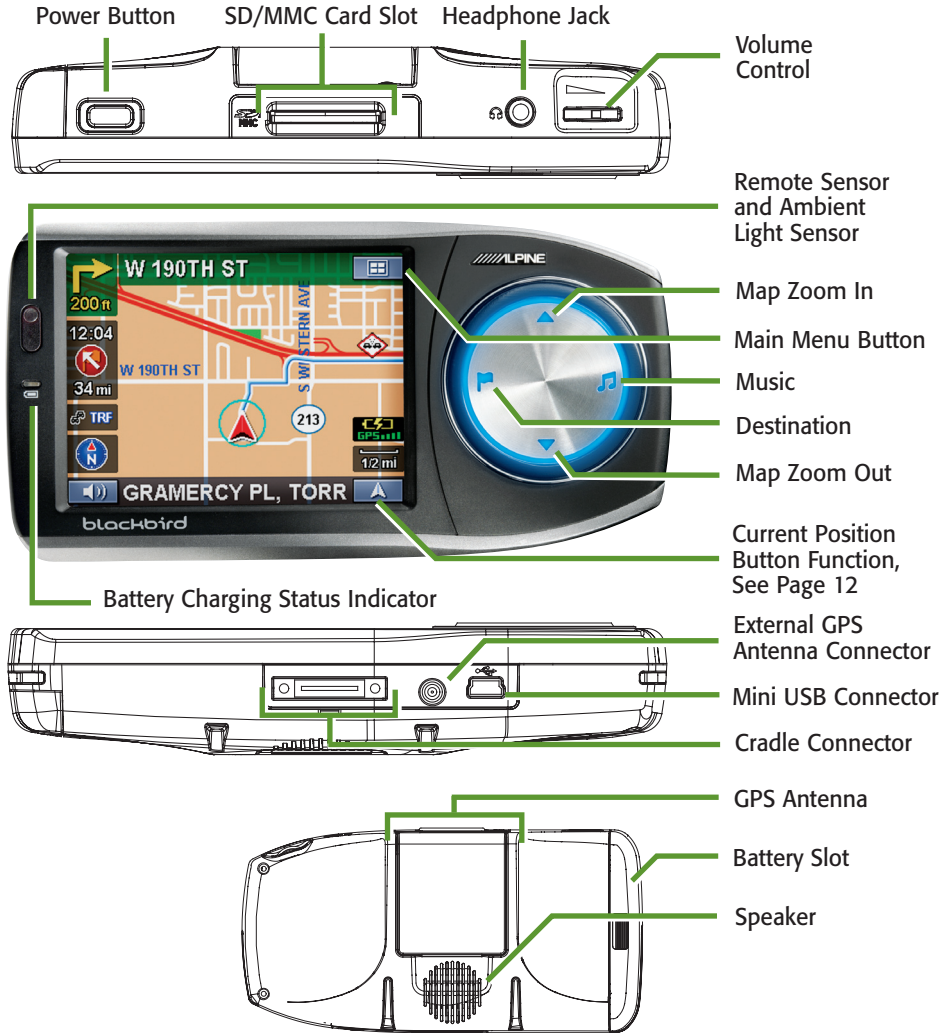**4** Insert and slide the battery assembly back into the main unit until a click sound is heard.

Note: It is recommended that the battery be charged using the supplied AC adapter for 8 hours before using the system. Avoid removing this rechargeable battery. If the battery needs to be replaced, dispose of it in accordance with local hazardous materials requirements.

■ How to Reset Blackbird

In the event the system requires a reset, pull over in a safe and legal manner before doing so. Insert a paper clip or similar object into the reset hole (located under the GPS antenna in the upper left hand corner of the recessed area) and depress the reset button for at least 1 second. Then, to restart the system, press and hold the power button for 2 seconds. The system will re-start.

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SYSTEM FEATURES

Blackbird Portable Navigation System

Power Button   SD/MMC Card Slot   Headphone Jack

Volume Control

Remote Sensor and Ambient Light Sensor

Map Zoom In

Main Menu Button

Music

Destination

Map Zoom Out

Battery Charging Status Indicator

Current Position Button Function, See Page 12

External GPS Antenna Connector

Mini USB Connector

Cradle Connector

GPS Antenna

Battery Slot

Speaker

Battery Charging Status Indicator

This illuminates when the system is being charged or requires charging. The battery will typically charge to full from empty in about three hours.
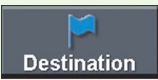
GREEN   Battery is fully charged.   RED   Battery needs charging.
AMBER   Battery is charging.

Congratulations and thank you for purchasing the Alpine Blackbird Portable Navigation System. We hope you enjoy using this exciting product and trust that it will make your driving experience more comfortable, stress-free, and entertaining. The Blackbird Portable Navigation System provides an easy-to-use user interface, clear, easy-to-understand spoken driving instructions, and award winning design all in a portable product. Blackbird is built upon Alpine's history of navigation success in North America. Please read this manual carefully. If you have any further questions about Blackbird's operation, feel free to call Alpine at 1-888-NAV-HELP (628-4357) for technical assistance.

Main Menu

Destination	Set and save Destinations. ➔ Page 14
Entertainment	Play music. ➔ Page 30
Home	Get back home from anywhere. ➔ Page 22
Route	Modify or choose alternate routes to a destination. ➔ Page 23
Information	View Navigation Demonstration and system information. ➔ Page 32
Edit	Edit Home and Address Book. ➔ Page 24
Traffic	Traffic feature allows you to receive Real Time Traffic. ➔ Page 26
Setup	Customize the navigation system. ➔ Page 28

Cradle with Cigarette Lighter Charger

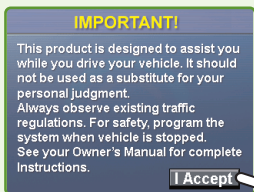• **Optional External GPS Antenna Accessory Available (Model # PMD-ANT1)**

External GPS Antenna Connector (SMA-type connector)

Cradle Eject Lockout Screw

AMPS/NEC Mounting Holes(x 4)

Amplified External Speaker

RDS Antenna

Power Cord

Windshield Mount Slot
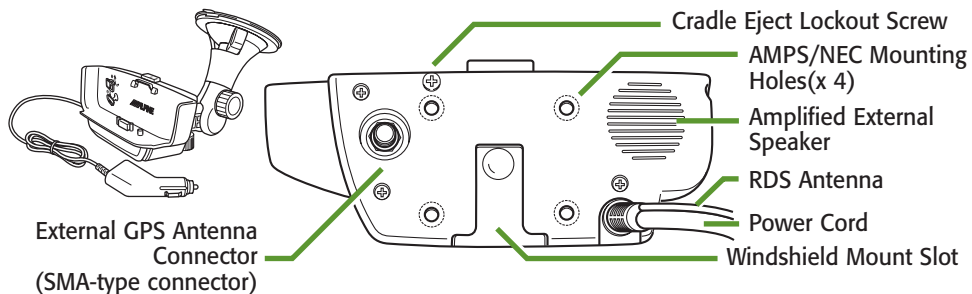
BASIC OPERATION

To Turn On Power

Power Button

1 Press and hold Power Button for 2 seconds.

2 Opening screen appears.

IMPORTANT!

This product is designed to assist you while you drive your vehicle. It should not be used as a substitute for your personal judgment.
Always observe existing traffic regulations. For safety, program the system when vehicle is stopped.
See your Owner's Manual for complete Instructions.

I Accept

3 Read carefully. Touch **I Accept** to display map.
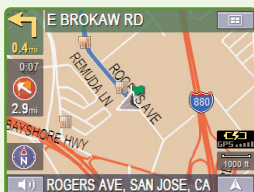
4 The last-known current location is indicated on the map.

To Turn Off

Press and hold Power Button for 2 seconds.

Set a Destination and Go!
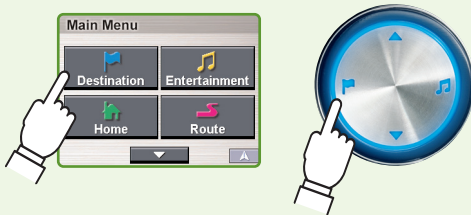
1 Touch **Main Menu** ⊞. Select **Destination** from Main Menu, or press Destination button.
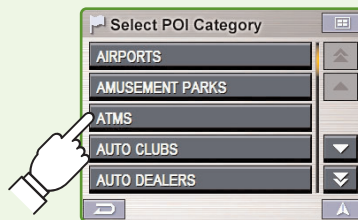
4 Scroll the list. Select desired place list.

(In this example, **ATMS** is selected.)
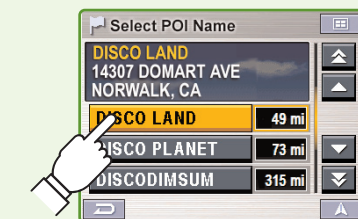
7 Select the place with correct address.

For Map Function, see page 12.

The following example briefly describes how to input a destination.
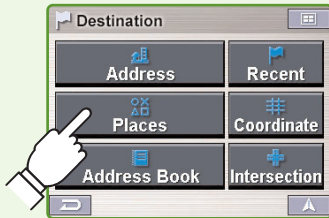
2 Select desired method.
(In this example, **Places** is selected.)

3 Select a search method.
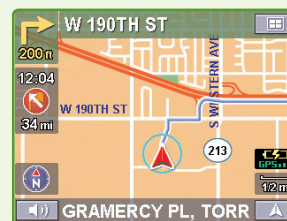(In this example, **By Place Type** is selected.)

5 Select the search method.
(In this example, **Sort By Name** is selected.)
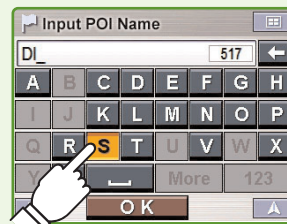
6 Type name of a place.
If more than one place with the same name exist, sort method screen appears.

8 Select **OK to Proceed** to set the destination.

9 Map is displayed.
Follow the navigation.

To Go Home, see page 22.

To Find other routes, see page 23.

MAP FUNCTION

Next Maneuver Arrow

Next Street Name

Main Menu Button

Distance to next maneuver

Estimated Time Remaining (ETR) / Estimated Time of Arrival (ETA)

Direction to Destination

Distance to Destination

Map Orientation

GPS Status bar Battery Status Indicator

Map Scale Bar

Current Position Icon and Map / Split / Arrow Button

Voice Prompt Repeat Button

Current Street Name

Setting Estimate Time Display

Click this icon to switch between Estimated Time Remaining and Estimated Time of Arrival.

Note: The time estimates are based on the average speed. The estimate time will vary depending on vehicle speed. The arrow always points toward the destination.

Setting the Map Orientation

Click icon to switch between North up and Heading Up views.

North Up

In north up view, north is always at the top of the display. This makes it easy to determine your current heading with respect to the map.

Heading Up

In heading-up view, the current direction is always pointing to the top of the display. This makes it easy to see the direction of the next turn on the map.

Repeating the Announcement

Click icon to repeat the guide announcement.

Zoom In/Out Map

Click icon to display scroll bar.

Touch ▲▼ or blue bar to zoom the map in or out. The scroll bar disappears automatically after 2 seconds. Minimum scale is 1/16th mile and Maximum is 350 miles.

GPS Status

Click icon to view GPS receiving condition information from satellite.

Battery Status

Shows status of the battery. (Lightning bolt) indicates that the battery is currently being charged. (3 bars) indicates that the battery has more than 60% charge. (2 bars) indicates that the battery has more than 40% charge. (1 bar) indicates that the battery has about 10% charge remaining.
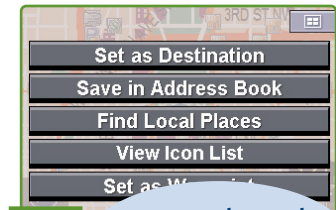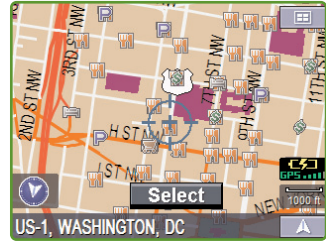
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■ Setting a Destination Directly from Map Display

1 Touch anywhere on map screen.
The current location arrow changes to Crosshair Cursor on the screen.

2 Move the cursor to the new desired street.

Note: Use Map Scale Bar to zoom out the map if the destination is far from the current location.

3 Touch **Select** .

4 Select **Set as Destination**.

5 Touch **OK to Proceed** on the confirmation screen.

Note: To use other functions on the confirmation screen, see page 14 for details.

US-1, WASHINGTON, DC

Set as Destination
Save in Address Book
Find Local Places
View Icon List
Set as Waypoint

To cancel, touch Previous Screen icon.

Switching Map Display

Touch the Current Position [↑] to switch between Map and Arrow modes. You may also configure the system to switch between Map and Split screen modes (see page 29).

Route Mode = Arrow
(default mode)

15TH ST NW
MADISON PL NW, WASHINGT

15TH ST NW
MADISON PL NW, WASHINGT

Arrow Mode
Displays three-successive arrow maneuvers all the way to your destination while providing turn-by-turn guidance prompts.

Map Mode
Shows a full-screen map of the area while providing turn-by-turn guidance prompts.

Route Mode = Split

15TH ST NW
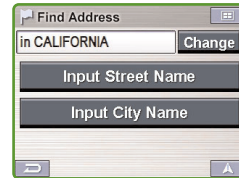MADISON PL NW, WASHINGT

15TH ST NW
MADISON PL NW, WASHINGT
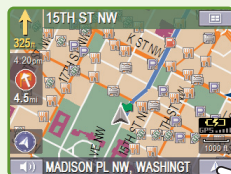
Split Arrow/ Map Mode
Displays a large arrow and larger next-street-name font along side a map screen while providing turn-by-turn guidance prompts.

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DESTINATION

■ Setting a Destination by Address

1 Go to **Main Menu** 🖻 .
➜ **Destination** 🏴 ➜ **Address** 🏠

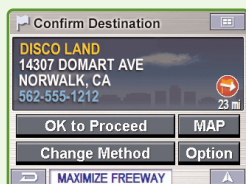### Finding a Destination by Street Name First

2 Select **Input Street Name**.

3 Type the first characters of the street name.
If there are unique matches, the system will automati-
cally display a short list of street names. Touch **OK**.
The list of applicable street names appears.

4 Select the desired street name from the list.

5 Type the street number and touch **OK**.

6 Select the desired city.
If there are multiple matches, the system will list cities
containing the street name and address number that
you keyed in.

7 Confirmation screen appears.
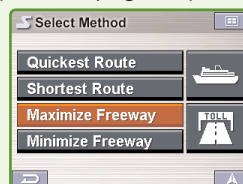See below for details.
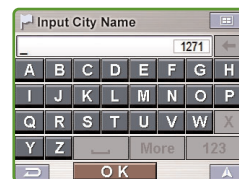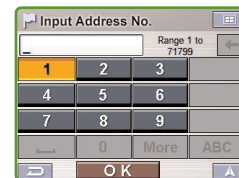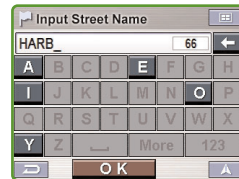
■ Confirm Destination Screen

OK to Proceed
Set the destination and display a map.

Change Method
Find an alternative way.
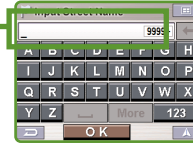(Refer to page 22.)

Change State

If you want to choose a different state from the one shown on the screen, touch **Change** to switch to a different state.

Selecting Letters

Selected characters are displayed.

←   Deleting one letter

␣   Adding one space

**123**   Going to number screen

Finding a Destination by City Name First

2 Select **Input City Name**.

3 Type the first few characters of the city name and press **OK**.
  If there are unique matches, the system will automatically display a short list of city names. Select the desired city.

4 Type the first characters of the street name. Touch **OK**.
  The list of applicable street names appears. Select the desired street.

5 Enter the street number.

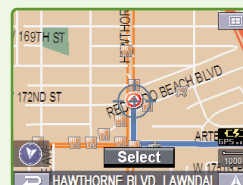**6** Confirmation screen appears.
  See below for details.
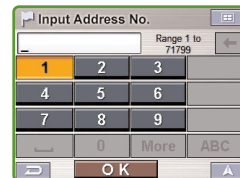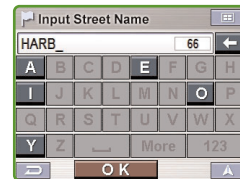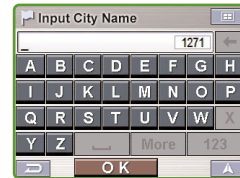
Option
Find Local Places ➜ P20
Set as Waypoint ➜ P21
Add to Address Book ➜ P20

Set as Waypoint
Add to Address Book
Set as Current Position
Find Local Places
Set as Home Location
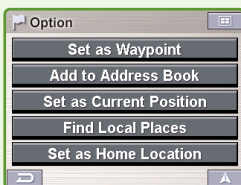
Map
Check the destination on the map. Touch ⮌ to go back to the confirmation screen.
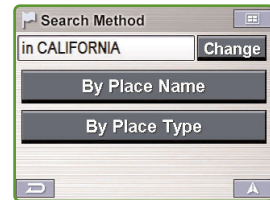
DESTINATION

■ Setting a Destination by Places

You can select from approximately 6 Million Point-of-Interest (POI) locations stored inside your Blackbird Portable Navigation System. These destinations are sorted by Place Name or by Place Type and are listed in order of distance from your current location.

1 Go to **Main Menu** ▦ .
   ➔ **Destination** [Destination]
   ➔ **Places** [Places]

Finding a Destination by Place Name

2 Select **By Place Name**.

3 Type the desired place name. Touch **OK**.
   A list of place names appears.

   Note: Use the arrows to the right of the list to move the yellow highlight. This will show detailed address information and phone number (if available) for each entry in the Places database.
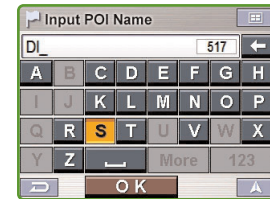
4 Select the place with correct address.
   For emergency locations such as Police Stations, Hospitals, etc., please verify availability before proceeding to such locations.

5 Confirmation screen appears. Touch **OK to Proceed** to set the destination and start guidance.

■ Setting a Destination from the Address Book

1 Go to **Main Menu** ▦ .
   ➔ **Destination** [Destination]
   ➔ **Address Book**

2 Select the desired destination.

3 Confirmation screen appears.
   Touch **OK to Proceed** to set your destination and start receiving turn-by-turn navigation instructions.

   To save an address in the address book, see page 20.

16
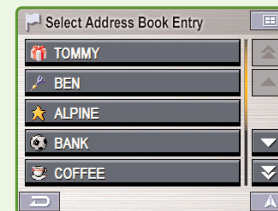
Destination

Finding a Destination by Place Type

2 Select **By Place Type**.

3 Select a desired POI Category.
There are 37 POI categories to choose from including ATMS, Banks, Gas Stations, Grocery Stores, Hotels, Parking Lots, Restaurants and more.

4 Select Search Method.

Select POI Category
- AIRPORTS
- AMUSEMENT PARKS
- ATMS
- AUTO CLUBS
- AUTO DEALERS

Search Method
- Sort by Distance
- Sort by Name
- Within a City

Sort by Distance

5 The list of place names appears in order of distance from the current vehicle position within the state region being searched.

6 Select the place ➔ **OK to Proceed**

Select POI Name
DISCO LAND
14307 DOMART AVE
NORWALK, CA
DISCO LAND   49 mi
DISCO PLANET   73 mi
DISCODIMSUM   315 mi

Sort by Name

5 Follow 3 to 5 in "Finding a Destination by Place Name" on Page 16.

Within a City

5 Type the city name and select a city.

6 The list of Places appears in order of the distance from the selected city. Select the desired place.

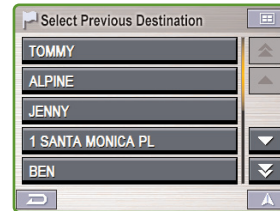**7** Touch **OK to Proceed** on the confirmation screen.

Select POI Name
MS SAIGON CAFE
18537 S WESTERN AVE
GARDENA, CA
310-532-0999
MS SAIGON CAFE   0.6 mi
YAKITORI & HAKATA RA   0.6 mi
RESTAURANT SHU CHA   0.7 mi

17

DESTINATION

■ Setting a Destination by Recently Entered Destination

1 Go to **Main Menu** 🔲 .

➜ **Destination** 🏳

➜ **Recent** 🏳

2 The list of recent destinations appears.
Select the destination.

3 Confirmation screen appears.
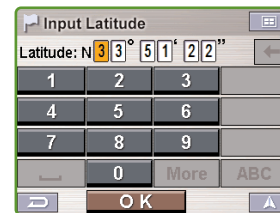Touch **OK to Proceed** to set the destination and start guidance.

Note: To use other functions on the confirmation screen, see page 14 for details.

■ Setting a Destination by Coordinates
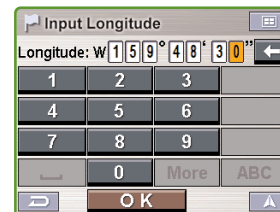
1 Go to **Main Menu** 🔲 .

➜ **Destination** 🏳

➜ **Coordinate** ⌗

2 Enter the Latitude of your destination.
Touch **OK**.

3 Enter the Longitude of your destination.
Touch **OK**.

4 Confirmation screen appears.
Touch **OK to Proceed** to set the
destination and start guidance.

Destination

■ Setting a Destination by Intersection

1 Go to **Main Menu** ⊞.

➔ **Destination** [Destination]

➔ **Intersection** [Intersection]

Finding a Destination by Street Name

2 Select **Input Street Name**.

3 Type in the street name.
Touch **OK**.
The list of applicable street names appears.
Select the desired street.

4 Input the second street name.
If there is only one street crossing with the first
street, the name of the street automatically appears.

5 Confirmation screen appears.
Touch **OK to Proceed**.

Note: To use other functions on the confirmation screen,
see the bottom of page 14 for details.

Finding a Destination by City Name

If you know the city name of the intersection you are searching, select Input City
Name. The choice of the street is narrowed down automatically. This saves time in
entering the street information.

2 Select **Input City Name**.

3 Type the city name, then select the city from the list.

4 Input the first street name.

5 Input the second street name.

6 Touch **OK to Proceed** on the confirmation screen.

OPTIONS

■ Find Local Places

The navigation system can display Points of Interest (POI) around the cursor position, when you scroll the map. As with POI categories, with the local places search you can chose from 37 categories including ATMS, Banks, Gas Stations, Grocery Stores, Hotels, Parking Lots, Restaurants and more.

How to Find Local Places Directly from the Map

1 Touch anywhere on map screen.
The current location arrow changes to cross hair cursor on the screen.

2 Touch **Select** .

3 Select **Find Local Places**.
Select the desired category.

4 Select the desired place.

5 Touch **OK to Proceed** on the confirmation screen.

Note: To use other functions on the confirmation screen, see page 14 for details.

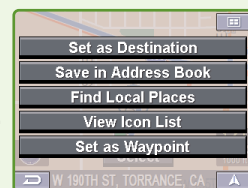### How to Find Local Places from the Destination Menu

You can also find local places from the Destination Menu.

1 Set a destination first from **Destination** Destination .

2 On the confirmation screen, touch **Option**.

3 Follow steps 3 to 5 above in "How to Find Local Places Directly from the Map".

■ Saving a Destination into the Address Book

Any destination can be saved into the Address Book.

1 Select a destination using any method.

2 From the confirmation screen, select **Option**.

3 Touch **Save in Address Book**.

■ Setting Waypoints

You can set up to 10 waypoints between your current location and your destination. The final destination must be set before entering any waypoints.

How to Set a Waypoint Directly from Map

1 Touch anywhere on map screen.
The current location arrow changes to cross hair cursor on the screen.

2 Move the cursor to the desired waypoint.

3 Touch   Select .

4 Select **Set as waypoint** and select **Re-calculate**.

5 When the route search is complete, the current location is displayed. The map navigates you to the first waypoint.
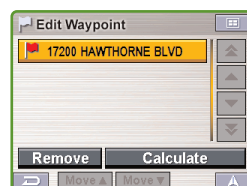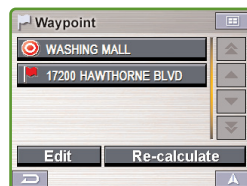
How to Set a Waypoint from the Destination Menu

You can also find local places from Destination Menu.

1 Enter a destination by using the method on pages 14 through 19 from Destination Menu.

2 On the confirmation screen, select **Option**.

3 Select **Set as Waypoint** and select **Re-calculate**.

How to Set a Waypoint from the Address Book

1 Enter in a destination from the Address Book (see page 16).

2 At the confirmation screen, touch **Option ➜ Set as Waypoint**.

3 Touch **Re-Calculate** to recalculate a route which includes your waypoint.

4 "Input Name" screen appears.
Type the desired name and touch **OK**.

Note: For the details of selecting letters, see page 15.

5 System returns to the Main Menu screen.

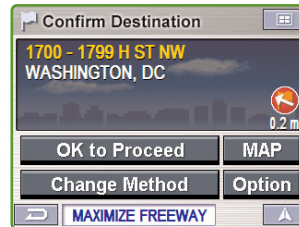Note: To display the saved destination on the map, see page 16, "Setting a Destination from the Address Book".
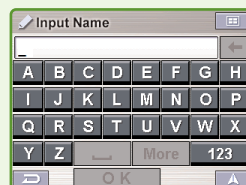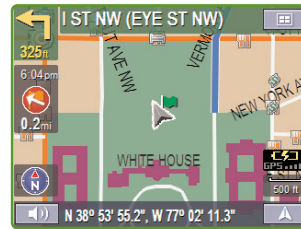
HOME

■ Finding a Way Home

You can get home from anywhere once the home address is set from Edit Menu.

1 Go to **Main Menu** .

➔ **Home**

2 Touch **OK to Proceed** on the confirmation screen.

3 Follow the map and go home.

> **Confirm Destination**
> 1700 - 1799 H ST NW
> WASHINGTON, DC
> 0.2 mi
> OK to Proceed | MAP
> Change Method | Option
> MAXIMIZE FREEWAY

> I ST NW (EYE ST NW)
> 325 ft
> 6:04 pm
> 0.2 mi
> WHITE HOUSE
> NEW YORK AV
> 500 ft
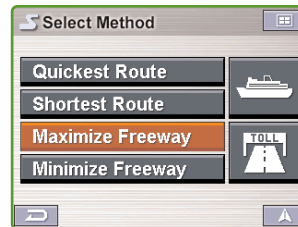> N 38° 53' 55.2", W 77° 02' 11.3"

To edit the Home Address, See Page 24.

■ Finding Alternate Way to Go Home

Go to **Main Menu** ➔ **Home** ➔ **Change Method**

- · Quickest Way
- · Shortest Route
- · Maximize Freeway
- · Minimize Freeway
- · With/Without Ferry
- · With/Without Toll Road

> **Select Method**
> Quickest Route
> Shortest Route
> Maximize Freeway
> Minimize Freeway
> TOLL

■ One-Touch Go Home

For an even easier way to immediately get guidance instructions to your home, you can press and hold the flag on the circle key for 2 seconds. This will instantly display the destination confirmation screen and guide you to your home location.
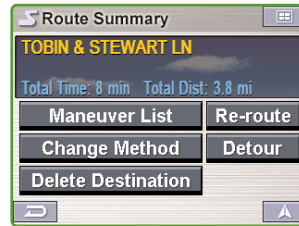
ROUTE

■ Recalling the Maneuver List during Guidance

You can view a list of street names and upcoming turns and streets.

1 Go to **Main Menu** ⊞ .
➜ **Route** 🔄

2 Touch **Maneuver List**.

3 List of upcoming streets and turns appears on the screen.

To preview a specific point, select a street name/maneuver on the list.

To go back to Route List,
Go to **Main Menu** ⊞
➜ **Route** 🔄

Route Summary
TOBIN & STEWART LN
Total Time: 8 min   Total Dist: 3.8 mi
Maneuver List	Re-route
Change Method	Detour
Delete Destination	

Maneuver List
ZANKER RD	2.7 mi
AGNEW RD	655 ft
HARRIGAN WAY (HARRI	265 ft
STEWART LN	80 ft
TRANSILL CIR	350 ft

■ Finding Alternate Route

Touch **Main Menu** ⊞ .
➜ **Route** 🔄
➜ **Change Method**

You can choose and re-calculate a different route based on Quickest Route, Shortest Route, Maximize Freeway, Minimize Freeway, with/without Ferry and/or Toll Road.

■ Finding Detour

Touch **Main Menu** ⊞ .
➜ **Route** 🔄
➜ **Detour**

The system automatically calculates and displays detour.

■ Delete Route

Go to **Main Menu** ⊞ ➜ **Route** 🔄
➜ **Delete Route** ➜ **Yes**

Note: After deleting the destination, you can not select Route Menu until the next destination is set. To set up the destination, see Destination Menu on Page 14.

Route Summary
⚠ Are you sure you want to delete this Destination?
| Yes | No |

23
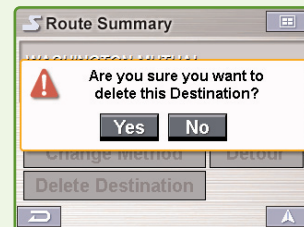
EDIT

Locations and Home addresses saved in the Address Book can be edited for quick recall. Also information including phone numbers and icons can be modified.
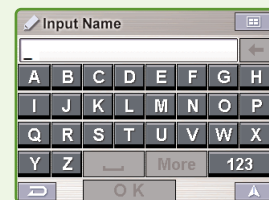
Main Menu

Information   Edit

Edit

Edit Home

Edit Address Book

Delete Previous Destination
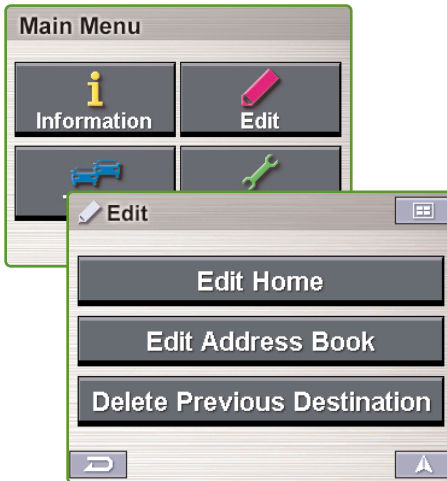
■ Editing Home

1 Go to **Main Menu** ⊞ .
➔ **Edit**

2 Touch **Edit Home**.

3 "Edit Home Point" screen appears.
See below for details.

Edit Home Point

Name   CRYSTAL AND MICHAEL

Icon   🏠   On   Off

Tel   123-123-4567

Map   Delete
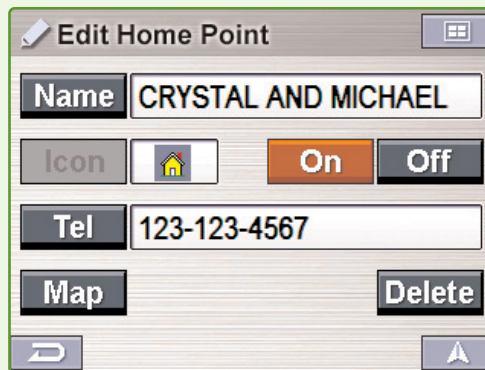
Name   Touch **Name** to change the display name of the stored location.

Note: For the details of selecting letters, see page 15.

Input Name

A B C D E F G H
I J K L M N O P
Q R S T U V W X
Y Z ⎵ More 123
⏎   O K   ▲

Input Name Screen

Edit

■ Editing Address Book

1 Go to **Main Menu** ⊞ .
➔ **Edit**

2 Touch **Edit Address Book**

3 The list of addresses appears. Select the destination you need to modify.

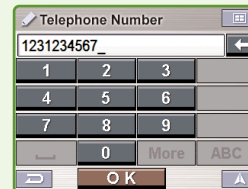**4** "Edit Address Item" screen appears. See below for details.

Note: Select **DELETE ALL** to delete all addresses saved in the address book.
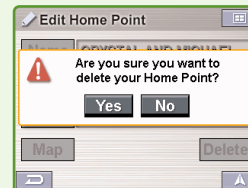
■ Deleting Previously Saved Destinations

1 Go to **Main Menu** ⊞ .
➔ **Edit**

2 Touch **Delete Previous Destination**.

3 Select destination you need to delete.

4 Touch **YES** to delete the destination on the confirmation screen.

Note: Select **DELETE ALL** to delete all recently entered destinations.

Tel   Touch **Tel** to change the telephone number of the stored location.

Map   Touch **Map** to preview the location on the map.
To go back to Edit Menu,
Main Menu ⊞ ➔ **Edit**

Delete   Touch **Delete** to delete the stored location.

Icon   Touch **Icon** to change the icon of the stored location on the map.

Telephone Number
1231234567_
1	2	3
4	5	6
7	8	9
⎵	0	More	ABC
O K
Edit Telephone Screen

Edit Home Point
Are you sure you want to delete your Home Point?
Yes   No
Map   Delete
Delete Screen

Select Icon
O K
Change Icon Screen

25

TRAFFIC

■ Viewing Traffic Incident List

If you have an activated subscription to the NAVTEQ traffic service, the Traffic Incident List screen allows you to view traffic information in your current area, or along your current route.

Note: Traffic feature is only available when Blackbird is placed in the cradle or the docking station. (The docking station is sold separately.)

1 To access the Traffic Incident List screen from the Main Menu, touch **Traffic** [Traffic], or from the map screen, touch **TRF** [TRF] located on the left side of the screen.

2 Traffic Incident List screen appears and provides a list of traffic incidents in your current area or along your current route.
You have a number of ways to use the information on this screen. These options are detailed below:
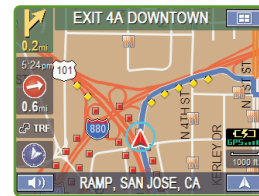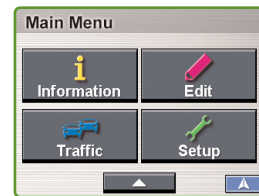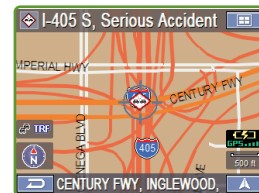
Viewing Traffic Incident Detail
To view the details of a traffic incident, touch a specific traffic incident in the list.

Note: The detail information may be identical to the summary information.

Viewing Incident Location
You can display the location of a traffic incident on the map by touching the crosshairs icon [⊕] next to the traffic incident you wish to view.
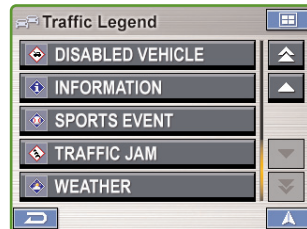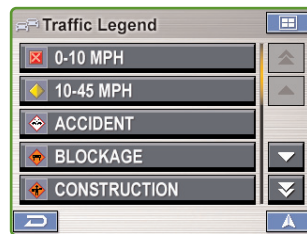
Calculating a Detour

To have the system analyze the traffic data within 30 miles of your current location, touch **Detour** `Detour`. If the system finds traffic congestion along your route, it will display a message including both the distance to the congestion and the anticipated delay the congestion may cause. To begin calculating a detour around the congestion, touch **Detour** again. To return to your current route without a detour, touch `⤺`.

Note: In order to use this feature, *the Detour Based on* option must be set to Traffic. You can set this option using the Traffic Setup screen. (See Page 31)

Viewing Traffic Icon Legend

You can view a list of all icons related to a traffic incident by first touching the desired incident to select it, then touching **Legend** `Legend`. A list of icons and their definitions will be displayed.

Note: If you have the system set to display traffic speed and flow icons on the map (See Page 31), both the traffic incident icons and traffic speed and flow icons, with their definitions, will be displayed.

Traffic Legend
- ⊠ 0-10 MPH
- ◆ 10-45 MPH
- ✦ ACCIDENT
- ⛔ BLOCKAGE
- ✚ CONSTRUCTION

Traffic Legend
- ✚ CONSTRUCTION
- ◈ DANGER
- ◉ DEBRIS
- ✦ DISABLED VEHICLE
- ⓘ INFORMATION

Traffic Legend
- ✦ DISABLED VEHICLE
- ⓘ INFORMATION
- ◉ SPORTS EVENT
- ✦ TRAFFIC JAM
- ✦ WEATHER

27

SETUP

You can customize Display, Guidance, Clock, Measuring Unit and FM frequency settings from the Setup Menu.

1 Go to **Main Menu** [⊞] .

2 Select **Setup** [🔧Setup] .

3 Setup screen appears.
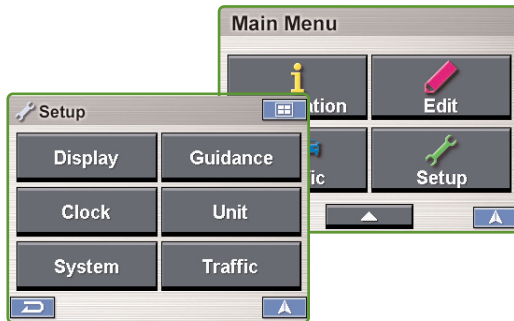
■ Customizing Display

Go to **Main Menu** [⊞] .
➔ **Setup** [🔧Setup]
➔ **Display**
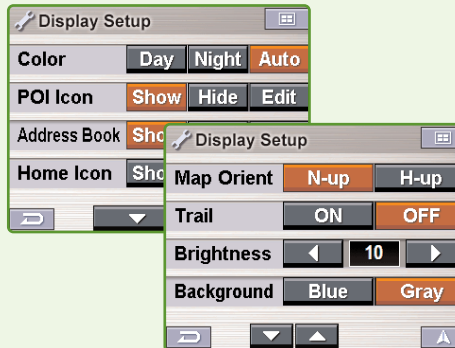
Setting the Map Color

Day - a bright tone screen
Night - a dark tone screen
Auto - switches automatically between
　　　 Day and Night modes

Displaying and Editing Icons on the Map

POI Icons, the Home Icon and Icons used in the Address Book can be turned on and off from the Display Setup Menu. You can also change these icons.

Map Orientation

North Up or Heading Up map views can be set here. You can also change between North Up and Heading Up views directly in the map screen. See page 12.

Background Color

You can choose between gray or blue backgrounds for all menu screens.

Trail

The Trail feature allows you to turn on and off trail dots that appear wherever the vehicle icon traverses. This is especially helpful for off-road enthusiasts.

Brightness

The brightness of the screen can be adjusted.

Setup

■ Customizing Guidance

Turning Voice On and Off
This allows you to turn ON or OFF guidance voice prompts.

Changing Navi Mix Volume
This allows you to vary the volume of the voice prompts with respect to the music.
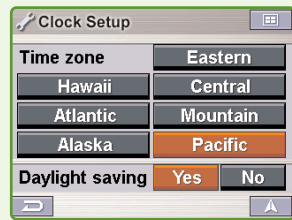
Setting Estimate Time Display
Estimated Time of Arrival (ETA) or Estimated Time Remaining (ETR) can be set here. You can also change between ETA and ETR directly in the map screen. See page 12.

Guidance Setup

Voice Prompt	ON	OFF
NAVI MIX Vol.	◀ 8 ▶
Guidance Time	Arrival	Remaining
Route Mode	Split	Arrow

■ Setting up the Clock

You can set the Time Zone and Daylight saving setting to fit your region.

Clock Setup

Time zone	Eastern
Hawaii	Central
Atlantic	Mountain
Alaska	Pacific
Daylight saving	Yes	No

■ Switching the Measuring Unit

You can choose the unit of measure between Miles and Kilometers.

Unit Setup

| Measuring unit | mile | km |
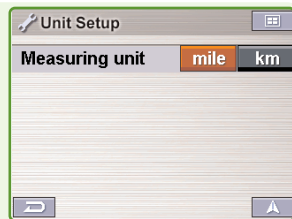
■ Configuring System Settings

FM Transmitter Setup
When set to ON, the FM Transmitter broadcasts music and voice prompts (if set to ON) to an available frequency on your FM car radio. See page 35.

Frequency
Allows you to change the frequency to find the best available station for broadcasting audio to your FM radio. See page 35.

Remote Control
This feature allows you to turn ON the ability for the system to receive remote control signals (optional RUE-4140 remote control available separately). Turning OFF the remote control extends battery life while the system is in handheld mode and detached from the cradle or AC adapter.

System Setup

Transmitter	ON	OFF
Frequency	◀ 88.1 ▶
Remote Control	ON	OFF
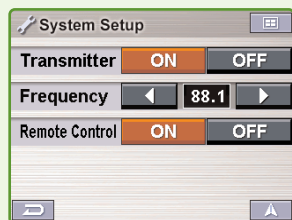
SETUP

■ Customizing Traffic Information

You can choose the way your traffic and navigation information is displayed using the traffic information setup controls.

1 Go to **Main Menu**
2 Select **Setup**
3 Select **Traffic**
4 The Traffic Setup menu appears and displays the system status and traffic setup options. Use the large arrow button at the bottom of the screen to view additional options. All traffic setup options are detailed below:
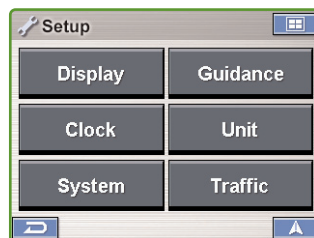
System Status

System Status displays the strength of the signal being received. To improve the signal strength, please see page 36.
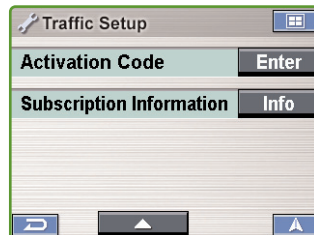
Displaying Traffic Icons

When the system receives traffic incident information it can display the information on the map screen using icons in several shapes and colors. To the right of **Icon**, touch **Show** or **Hide** to make your selection.
Show: The selected traffic incident icons will be displayed on the map.
Hide: No traffic incident icons will be displayed on the map.

When Show is selected, you can choose which types of traffic incident icons are displayed:

1 Touch **Edit**.
2 An icon list appears. Traffic incident icons shown with a checkmark will be included on the map. You can select (or de-select) the types of traffic icons you wish to display.
Touch **Done** to save your selections.

Touch **Default** to display all traffic incident icons.

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Displaying Traffic Speed and Flow Icons

You can choose whether or not the system displays traffic speed and flow information as icons on the map screen when the information is received. To the right of **Speed Flow**, touch **Show** or **Hide** to make your selection.

Show: Traffic flow icons will be displayed on the map when viewing at a scale of 2 miles/4 kilometers or less.

Hide: No traffic flow icons will be displayed on the map.

Choosing *Detour Based On* Options

When using the **Detour** option on the Traffic Incident List screen, the system will recalculate your route using the detour setting you have chosen. To the right of **Detour Based on**, touch **Traffic** or **Distance** to make your selection.

Traffic: The detour will be calculated considering traffic congestion reported along the next 30 miles of your current route. You should choose this option if you plan to use the detour feature to avoid traffic congestion

Distance: The detour will be calculated by considering the distance selected by the user.

Activating Subscription

You will receive an activation code when you complete the traffic subscription process. To the right of **Activation Code**, touch **Enter** then input your activation code. To subscribe to NAVTEQ Traffic RDS Services, please visit: http://www.blackbirdtraffic.com

Viewing Subscription Information

You can easily view how many days you have remaining on your current traffic subscription. To the right of **Subscription Information**, touch **Info**.

INFORMATION

■ Simulating Navigation

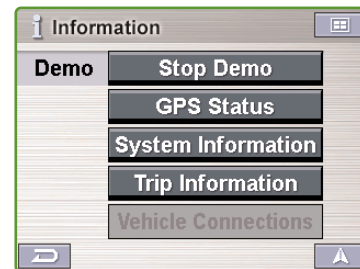You can watch a demonstration of the navigation system's voice and screen guidance.

To Start a Demonstration

1 Go to **Main Menu** ⊞ .

2 Select **Information** ⓘ Information .

3 Select **Start Demo**.

4 Demonstration starts.

To Stop a Demonstration

1 Go to **Main Menu** ⊞ .

2 Select **Information** ⓘ Information .

3 Select **Stop Demo**.

4 The demonstration will end.

■ Viewing Trip Information

The odometer displays the route distance and time traveled.

1 Go to **Main Menu** ⊞ .
   ➜ **Information** ⓘ Information

2 Select **Trip Information**.

Here, you can see different types of information pertaining to your current trip.
Driving Average: Average speed since Trip Info was reset.
Overall Average: Average speed since start of trip.
Maximum Speed: Maximum speed reached on this trip.
Driving Time: Time vehicle has been moving since the trip was reset.
**Idle Time:** Time vehicle has been stopped (not moving) since the trip was reset.
Total Time: Total elapsed time on the trip which is always the driving time plus idle time.

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■ Viewing GPS Status

You can view the dynamic location information received from satellite such as signal strength, compass (direction information), latitude/longitude, approximate altitude, and speed. This feature allows you to view GPS satellite signal information. An explanation of the messages is shown below.

1 Go to **Main Menu** 🔲.
   ➔ **Information** ⓘ

2 Select **GPS Status**.
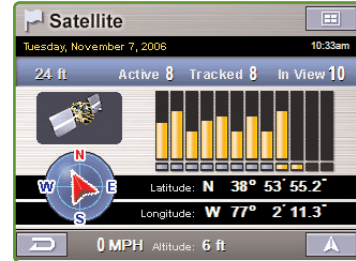
The following messages are displayed while the GPS receiver is tracking satellites:

"Locating GPS Satellites": Blackbird searches the sky looking for GPS satellites.

"Acquiring GPS Signal": Blackbird acquires positioning information transmitted from 1 to 3 tracked satellites while searching for more satellites (minimum 4 needed).

"Fixing GPS Position": Blackbird requires continuous signals from 4 or more tracked satellites (for 30 seconds) in order to accurately fix your position.

"Temporary Poor GPS Coverage": Thunderstorms, dense foliage or surrounding tall buildings may cause temporary loss of position fix (acceptable if under 30 seconds).
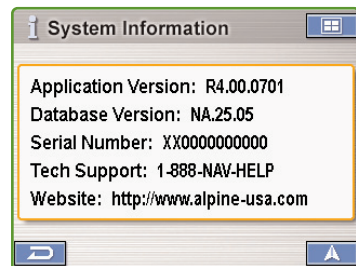
"Poor GPS Signal, Lost Position Fix": You may have entered an area where consistently poor GPS signal (lasting 30 seconds or more) makes it impossible to maintain a position fix.

"No Line of Sight, Lost GPS Tracking": You are in an area where line of sight to GPS satellites has been blocked.

■ Viewing System Information

You can check software application, database version, and other information in this screen. Make a note of this information and refer to it whenever you communicate with Alpine Tech Support or your Alpine authorized dealer.

1 Go to **Main Menu** 🔲.
   ➔ **Information** ⓘ

2 Select **System Information**.

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ENTERTAINMENT

■ Listening to Audio

Folder Number

File Number

Audio

GO AND PLAY
ALPINE BAND

📁 1/1   📄 2/3   🕐 0'14"

PLAY   VOL. 15

Displays Song Titles and Artist Names

Playing Time

REPEAT   M.I.X.

Back   Play/ Pause   Forward   Folder Up   Folder Down   Folder Search

M.I.X.

Touch **M.I.X.** to shuffle songs.

Touch **M.I.X.** again to cancel the shuffle.

REPEAT

Touch **REPEAT** to repeat songs.

Touch **REPEAT** again to cancel the repeat.

■ Playing Music on Your Blackbird

You can play MP3 or WMA music files* from your SD or MMC card. Your music can be arranged in sub-folders for easy retrieval when using your Blackbird device.

*Blackbird only currently supports MP3 and WMA files without DRM.

1 Insert an SD or MMC card con-taining folders with music files in the SD/MMC slot. The sys-tem will scan for music.

2 Touch **Folder Search** 📁 to search the memory card.

3 Select a folder, then select a song to play. The music will start playing the song you selected.

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UPDATING THE SYSTEM

Entertainment
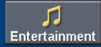
■ How to Listen to Guidance and Music from Your Car Stereo

Turning on the Transmitter and Playing Music from Your Radio

You can setup Blackbird to broadcast music and navigation voice guidance directly to your FM radio.

1 Plug the cradle into your vehicle's cigarette lighter/power outlet.

2 Insert Blackbird into the cradle (See page 6 for details).

3 Turn on your radio. Find an FM frequency from the following that is broadcasting nothing but static: 88.1 MHz, 88.3 MHz, 88.5 MHz, 88.7 MHz, 88.9 MHz, 106.7MHz, 106.9 MHz, 107.1 MHz, 107.3 MHz, 107.5 MHz, 107.7 MHz, 107.9 MHz (do this with Blackbird off at first).

4 Turn on Blackbird.

5 On Blackbird, go to **Main Menu ➔ Setup ➔ System**. The default broadcast frequency is 88.1 MHz.

6 Turn the transmitter button ON in System Setup screen.

7 Set Blackbird to that frequency and play music files on Blackbird. (Touch **Main Menu ➔ Entertainment**, or simply press Music button) Blackbird provides 12 frequencies to choose from. You may have to try a few frequencies before you find one that works best in your vehicle.

Turning Off the Transmitter

1 Turn off or turn down the volume of your radio first to avoid the static noise.

2 On Blackbird, go to **Main Menu ➔ Setup ➔ System**.

3 Turn the transmitter button OFF in System Setup screen.

■ How to Update the New Software and Map Database

Using your home PC, Blackbird can be updated with the latest mapping and Point of Interest information. Please refer to instructions included with the update software on how to upgrade your Blackbird system.

IN CASE OF DIFFICULTY

If you encounter a problem, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise make sure the rest of your system is properly connected, batteries are completely charged and contact your authorized Alpine dealer or Alpine directly at 1-888-NAV-HELP (1-888-628-4357).

The vehicle's position is erroneous.
Reset the unit and drive the vehicle in an area of good GPS reception to allow the unit to recalibrate itself. Move to a location where strong GPS reception is possible.

No operation
· Moisture condensation   ➔ Allow enough time for the condensation to evaporate (about 1 hour).

· Ambient temperature   ➔ Lower the temperature in the vehicle to
  over 113°F (45°C)   below 113°F (45°C) by driving with the windows open or air conditioner on.

· Blown fuse   ➔ Replace with a fuse of the prescribed rating (2A glass-type fuse located in the head of the cigarette lighter adapter).

The unit is taking a long time to acquire GPS signal.
It may take a long time for the unit to acquire GPS signal if it has been powered on in an area that is more than 200 miles from the area where it was last powered off. Following these steps will speed the process by resetting the GPS receiver:

1 Go to **GPS Status** screen (See instructions on page 33)

2 Press and hold the Down Arrow (Map Zoom Out Button) for 2 seconds

3 A message appears to indicate that the GPS receiver is resetting.

**Low RDS Traffic Signal (for Traffic Service Users)**
In order to improve the RDS Traffic signal strength, you may need to separate the RDS antenna away from the power cord on the Cradle. Carefully follow these instructions:

1 Power off the unit and unplug the Cigarette Lighter Charger.

2 Identify the RDS antenna. It is the thin, black, insulated wire that runs the full-length of the thicker power cord. (See diagram on page 9)

3 Carefully cut the thin RDS antenna at the point where it enters the connector that attaches it to the Cigarette Lighter Charger.

4 Slowly peel the antenna away from the power cord to leave about 50 inches of the antenna separated and hanging free.

5 Place antenna on the vehicle dashboard or for best results, mount the antenna to the windshield using the provided suction cups (please see suction cup instructions for details)
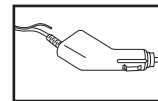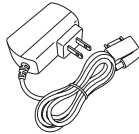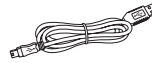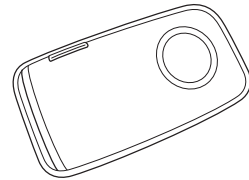
IN THE BOX

■ Accessories
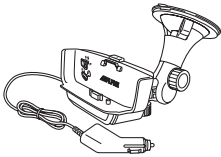
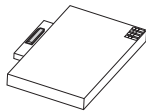Cradle with Cigarette
Lighter Charger

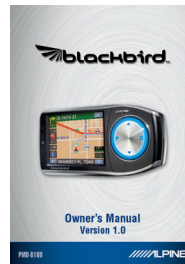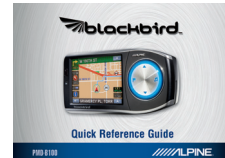AC Adapter

USB Cable

Carrying Case

Wiping Cloth

1200mAh Battery

• Dummy SD Card (Inside Main Unit)
• Registration Card

Owner's Manual

Quick Reference
Guide

■ Optional Accessories

The following accessories are available from your authorized Alpine dealer.

1. **PMD-DOK1** – A Docking Station that allows you to connect and experience Blackbird navigation and music player from your Alpine Multimedia Station or stand-alone display.
2. **PMD-KIT1** – A second car kit comprised of windshield mount, cradle, and home AC charger.
3. **PMD-ANT1** – An external GPS antenna hard-wired to Blackbird used in instances where you cannot normally receive GPS signals inside the car, due to metallic window tint, etc.
4. **PMD-BAT1** – A 1200 mAh Li-Polymer battery for extra battery power on the go.
5. **RUE-4140** – A combination navigation and audio remote control that allows you to control most of Blackbird's navigation features wirelessly.

SPECIFICATIONS

Main Unit Size   6.1" x 2.9" x 1.2"
(145mm x 74mm x 29mm)

Main Unit Weight 8 oz (227 g)

CPU   Centrality Atlas II ARM9 CPU

GPS   Embedded 16 channel GPS, Built-In
Main Unit Antenna with
Optional External Antenna
Connection

Storage Media   Built-In 1" HDD with Pre-Loaded
Maps of US* and Canada and 6
Million Points of Interest Locations
(*Including Alaska and Hawaii)

Card Slot   Secure Digital (SD) or Multimedia
Card (MMC) for playback of MP3
or WMA music files

Audio   Integrated speaker in main unit,
amplified speaker in cradle,
stereo headphone jack, optional
docking station audio output

FM Transmitter Built-in cradle, up to 12 selectable
frequencies

RDS-TMC Tuner   Built-in main unit w/antenna in cra-
dle power cable

USB Interface   2.0

Power Requirements
Handheld Mode   5V @ 1A (via 1200 mAh Li-Polymer
Battery, approximately 2 hours of
continuous use)

Cradle Mode   12 VDC @ 2A (via Cigarette Lighter
Adapter)

Fuse   AGC/3AG -2Amp

Operating Temp 32˚ to 140˚ F (0˚ to +60˚C)

Storage Temp   -13˚ F to 158˚ F (-25˚ to 70˚ C)

Display
Screen Size   3.6" diagonal

Resolution   QVGA 320 x 240 pixels, 16.7M pos-
sible colors

Display Type   Digital TFT display with anti-glare
touch screen

Brightness   200 nits (typical)

Note: Due to continuous product improve-
ment, specifications are subject to change
without notice.

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LIMITED WARRANTY

ALPINE ELECTRONICS OF AMERICA, INC. AND ALPINE OF CANADA INC. ("Alpine"), are dedicated to quality craftsmanship and are pleased to offer this Warranty. We suggest that you read it thoroughly. Should you have any questions, please contact your Dealer or contact Alpine at one of the telephone numbers listed below.

●**PRODUCTS COVERED:**
This Warranty covers Car Audio, Navigation Products and Related Accessories ("the product"). Products purchased in the Canada are covered only in the Canada. Products purchased in the U.S.A. are covered only in the U.S.A.

●**LENGTH OF WARRANTY:**
This Warranty is in effect for one year from the date of the first consumer purchase.

●**WHO IS COVERED:**
This Warranty only covers the original purchaser of the product, who must reside in the United States, Puerto Rico or Canada.

●**WHAT IS COVERED:**
This Warranty covers defects in materials or workmanship (parts and labor) in the product.

●**WHAT IS NOT COVERED:**
This Warranty does not cover the following:
1 Damage occurring during shipment of the product to Alpine for repair (claims must be presented to the carrier).
2 Damage caused by accident or abuse, including burned voice coils caused by over-driving the speaker (amplifier level is turned up and driven into distortion or clipping). Speaker mechanical failure (e.g. punctures, tears or rips). Cracked or damaged LCD panels. Dropped or damaged hard drives.
3 Damage caused by negligence, misuse, improper operation or failure to follow instructions contained in the Owner's manual.
4 Damage caused by act of God, including without limitation, earthquake, fire, flood, storms or other acts of nature. Any cost or expense related to the removal or reinstallation of the product.
5 Service performed by an unauthorized person, company or association.
6 Any product which has the serial number defaced, altered or removed.
7 Any product which has been adjusted, altered or modified without Alpine's consent.
8 Any product not distributed by Alpine within the United States, Puerto Rico or Canada.
9 Any product not purchased from an Authorized Alpine Dealer.

●**HOW TO OBTAIN WARRANTY SERVICE:**
1 You are responsible for delivery of the product to an Authorized Alpine Service Center or Alpine for repair and for payment of any initial shipping charges. Alpine will, at its option, repair or replace the product with a new or recondi-tioned product without charge. If the repairs are covered by the warranty, and if the product was shipped to an Authorized Alpine Service Center or Alpine, Alpine will pay the return ship-ping charges.

2 You should provide a detailed description of the problem(s) for which service is required.
3 You must supply proof of your purchase of the product.
4 You must package the product securely to avoid damage dur-ing shipment. To prevent lost packages it is recommended to use a carrier that provides a tracking service.

●**HOW WE LIMIT IMPLIED WARRANTIES:**
ANY IMPLIED WARRANTIES INCLUDING FITNESS FOR USE AND MERCHANTABILITY ARE LIMITED IN DURATION TO THE PERIOD OF THE EXPRESS WARRANTY SET FORTH ABOVE AND NO PERSON IS AUTHORIZED TO ASSUME FOR ALPINE ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT.

●**HOW WE EXCLUDE CERTAIN DAMAGES:**
ALPINE EXPRESSLY DISCLAIMS LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES CAUSED BY THE PRODUCT. THE TERM "INCIDENTAL DAMAGES" REFERS TO EXPENSES OF TRANSPORTING THE PRODUCT TO THE ALPINE SERVICE CEN-TER, LOSS OF THE ORIGINAL PURCHASER'S TIME, LOSS OF THE USE OF THE PRODUCT, BUS FARES, CAR RENTALS OR OTHERS COSTS RELATING TO THE CARE AND CUSTODY OF THE PRODUCT. THE TERM "CONSEQUENTIAL DAMAGES" REFERS TO THE COST OF REPAIRING OR REPLACING OTHER PROPERTY WHICH IS DAMAGED WHEN THIS PRODUCT DOES NOT WORK PROPERLY.
THE REMEDIES PROVIDED UNDER THIS WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS.

●**HOW STATE/PROVINCIAL LAW RELATES TO THE WARRANTY:**
This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state and province to province. In addition, some states/provinces do not allow limita-tions on how long an implied warranty lasts, and some do not allow the exclusion or limitation of incidental or consequential damages. Accordingly, limitations as to these matters contained herein may not apply to you.

●**IN CANADA ONLY:**
This Warranty is not valid unless your Alpine car audio product has been installed in your vehicle by an Authorized Installation Center, and this warranty stamped upon installation by the installation center.

●**HOW TO CONTACT CUSTOMER SERVICE:**
Should the product require service, please call the following number for your nearest Authorized Alpine Service Center.

| CAR AUDIO 1-800-ALPINE-1 (1-800-257-4631) |
| NAVIGATION 1-888-NAV-HELP (1-888-628-4357) |

Or visit our website at; http://www.alpine-usa.com

ALPINE ELECTRONICS OF AMERICA, INC.,
19145 Gramercy Place, Torrance, California 90501, U.S.A.
ALPINE ELECTRONICS OF CANADA, INC.,
777 Supertest Road, Toronto, Ontario M3J 2M9, Canada Phone 1-416-736-6211
Do not send products to these addresses.
Call the toll free telephone number or visit the website to locate a service center.
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